

In the Specification:

Please replace paragraph [0009] with new paragraph [0009], shown below.

~~Fig. 3 is a partial cross-section of an exemplary coaxial connector assembly including a conductive insert and glass bead assembly;~~

Please replace paragraph [0022] with new paragraph [0022] as shown below.

As shown in Fig. 2, for high frequency applications a glass bead 104 is mounted in a conductive insert 214 to form a glass bead assembly (also referred to herein as an electrical feed-through connection) 202. The conductive insert 214 is generally cylindrical in shape, having a proximal end and a distal end, wherein the proximal end is adjacent to a housing in which a microstrip substrate is located (as shown below in Fig. 3). The conductive insert 214 includes a bore varying in diameter along the length of the conductive insert 214. A first portion of the bore receives a glass bead 104 and is sized such that a characteristic impedance of the glass bead matches a characteristic impedance of a coaxial connector. The characteristic impedance of a dielectric is given by the equation:

$$z_o = \frac{60}{\sqrt{Er}} \ln\left(\frac{D_o}{D_i}\right)$$

where Er is the relative permittivity of the dielectric (i.e., the dielectric constant), D_o is the diameter of an outer conductor (e.g., the inner surface of the bore) and D_i is the diameter of an inner conductor (e.g., the center conductor pin). In a typical microwave connector, the characteristic impedance of the coaxial connector is 50 Ω. The first portion of the bore is sized such that z_o is 50 Ω when a glass dielectric is

positioned in the first portion. In other embodiments the characteristic impedance can be more or less than 50Ω .

Please replace paragraph [0025] with new paragraph [0025] as shown below.

Fig. 3 illustrates an exemplary coaxial connector assembly **300** in which an electrical feed-through connection **202** is used. The electrical feed-through connection **202** is mounted in a package housing **306** and positioned such that the center conductor pin **116** is in electrical communication with the microstrip substrate **308** located within the housing **306**. The housing **306** includes a cavity **324** for receiving the conductive insert of the electrical feed-through connection **202**. To ensure a good connection between the conductive insert electrical feed-through connection **202** and the housing **306**, the conductive insert **[202]** is fixedly attached to the housing **306**. For example, the conductive insert **[202]** can be soldered into the cavity **324** of the housing **306** or connected to the housing **306** by bolts. The housing further contains a second cavity **326** for associated circuitry.